

Time Series of O₃ profiles from ground-based FTS at Mauna Loa, Hawaii and Thule, Greenland compared to O₃ from Aura



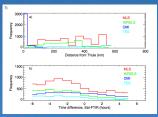
James Hannigan, Rebecca Batchelor and Michael Coffey
NCAR corres. auth.: jamesw@ucar.eduu

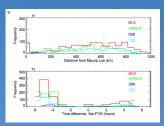
Aura Datasets & Coincidence Criteria

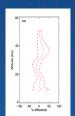
.at / Lon box (MLS, HIRDLS, TES): +/- 5 latitude, +/- 8 longitude Distance (OMI): 150 km (these data files were pre-made for TAB/MLO) Time Separation: maximum of 6 hours

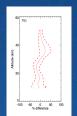
Figure 1 act shows the mean percentage difference and standard deviations of O_s vertical profiles (Aura Sensor-FIRO,6/Aura Sensor + FTRR) for MLS, FIROD,5/Aura Sensor + FTRR) for MLS, or MLS expected the Sensor-FIROD,5/Aura Sensor + FTRR) for MLS, or MLS expected the Sensor-FIROD,5/Aura Sensor + FTRR (Sensor-FIROD,5/Aura Sensor + FTRR) for MLD, for meaning the sensor that Sensor HLD, for meaning the sensor sen

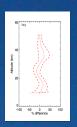
Altitude range	Typical DOFS	MLS Mean diff +/- 1 std dev (%)	HIRDLS Mean diff +/- 1 std dev (%)	OMI Mean diff +/- 1 std dev (%)	TES Mean diff +/- 1 std dev (%)
TAB					
0.2-6.4	0.9	n/a	n/a	n/a	11.6+/-58.9
6.4 -11.7	1.3	n/a	n/a	n/a	-5.8+/-45.4
11.7 - 18.3	1.3	3.8 +/- 12.4	-7.1 +/- 13.1	12.7 +/- 12.7	10.0+/-23.0
18.3 - 24.8	1.1	-7.3 +/- 8.7	-15.8 +/- 9.0	-6.7 +/- 11.1	-18.5+/-17.1
24.8 - 34.2	1.0	-2.6 +/- 13.3	-2.6 +/- 12.0	-2.3 +/- 12.9	12.5+/-23.3
MLO					
3.4 -11.7	1.4	n/a	n/a	n/a	6.7+/-20.5
11.7 - 18.3	0.8	4.8 +/- 35.7	25.8 +/- 37.5	33.3 +/- 37.8	-2.5+/-31.0
18.3 - 24.8	1.0	-0.1 +/- 8.1	-1.7 +/- 10.2	10.3 +/- 9.5	-1.6+/-7.7

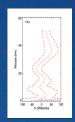


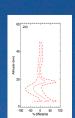












11.7-18.3 km



